

ABSTRACT

An optical assembly incorporates a compact and efficient lens for coupling a beam of light from an optical device to an optical fiber. The lens includes a curved reflecting surface and a focusing surface. The lens is positioned to receive and internally
5 reflect the beam of light from the optical device toward the focusing surface. The focusing surface in turn focuses the reflected beam into the end of an optical fiber. The curved surface may include a reflective coating for transmitting a portion of the beam toward a monitoring unit which is used to monitor a parameter of the beam. The optical assembly may further include a platform for supporting the optical device, the lens, the
10 optical fiber and the monitoring unit.